

Notice of Allowability

Application No.

09/987,489

Applicant(s)

MULLINS, WARD

Examiner

Art Unit

Apu M Mofiz

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/08/2005.
2. ☒ The allowed claim(s) is/are 31-42 and renumbered as 1-12.
3. ☒ The drawings filed on 15 November 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>herein</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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DETAILED ACTION

1. Applicant's amendments and arguments filed April 08, 2005 have been fully considered and they are deemed to be persuasive.

Allowable Subject Matter

2. Claims 31-42 are allowed over the prior art of record.

Reasons For Allowance

3. The following is an examiner's statement of reasons for Allowance:

Regarding Independent claims 31,33 and 41, Applicant's particular computer system, which includes at least one computer implemented program, at least one data source, and a mapping system wherein object programming applications are tailored to delegate both the accessing of a data source and the generation of SQL strings to a runtime library repository wherein the repository comprises a collection of system information and software program libraries, which repository can access the database directly or through a database driver, such as a JDBC driver, without the need to imbed specific database accessing mechanism classes in the application code of an object programming application prior to runtime, wherein the mapping system portion is designed to provide to a system user who is accessing, creating or updating maps, or

accessing objects on a system to make data changes related to a particular object and to promulgate the changes to that object as either local or global changes on the computer system or the mapping system portion provides an interface permitting an authorized user to edit or create the tables, fields, or attributes of a data map for an object as a table format or XML file format without requiring the user to have extensive knowledge of a particular relational database as a source of the data or extensive knowledge about how to directly access the relational database in combination with other limitations of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

Regarding Independent claim 37, Applicant's particular computer system, which includes fully synchronized caching system utilizing at least one computer implemented program that synchronizes the caching of a delegated data source access management object to relational mapping layer and the transaction coordination facilities of an application server, and the computer system includes a first data source referred to as the primary data source, a second data source referred to as the cache data source that is associated with an object to relational mapping layer to provide a data source cache for object applications, and a server having a transaction coordinator with the ability to register multiple data sources, wherein both the primary data source and the cache data source are registered with the transaction coordinator facilities of the server, and the cache data source acts as secondary data source to speed up data access for an object application and the cache data is plugged into the object to relational mapping layer,

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and registration of the cache data source with the transaction monitor of the server provides the feature that any changes to the cache will automatically be synchronized with the primary data source or record upon transaction completion, including commit or roll-back of changes for both data sources, and the computer system further includes a mapping system wherein object programming applications are tailored to delegate both the accessing of a data source and the generation of SQL strings to a runtime library repository, which repository can access the database directly or through a database driver such as a JDBC driver, without the need to imbed specific database accessing mechanism classes in the application code, and wherein the transaction monitor of the server calls the mapping system and in the call delegates accessing or updating of data in the data sources registered with the transaction monitor, and wherein the transaction monitor does not complete a transaction until it is notified by the mapping system that a data source has been updated by the mapping system such that any changes to the cache will automatically be synchronized with the primary data source or record upon transaction completion including commit or roll-back of changes for both data sources in combination with other limitations of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

The dependent claims, being further limiting to the independent claims, definite and enabled by the specification are also allowed.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Points of Contact

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Apu M. Mofiz whose telephone number is (571) 272-4080. The examiner can normally be reached on Monday – Thursday 8:00 A.M. to 4:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached at (571) 272-4083. The fax numbers for the group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.


Apu M. Mofiz
Patent Examiner
Technology Center 2100

April 13, 2005